

ELECTRONICS



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PC Games
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Data Statements
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PROGRAMS

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A handy Basic search routine Sprites for the Plus 4 - can it be possible?

Head For Home 45

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Data Statements

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SOFT CHARITY





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Processor Speed

This is sensething of an obsession in PC circles, with endless questing of clock aponds in reviews. However, tenomes this case by AV important to underward that this has a direct bearing on how fall the district to use. The PCD III uses the original Bills processes, which is the district of the loast Rills family of chips, but clocked at ony to 3.5 Mes. This is very nearly reject the preferenses, well that the preferenses to the processing of the preferenses.

Switzbing the machine on brings a brough the to life, and not be display through an to life, and not be display through an order of messages appear at the top of the sevent. These seem slightly recibered, and I wonder it better course of action would be to account them from a set up program. You them have to be the MEAD with sussering a system disk. The preven-

received a profession of the CMED in tymenting a system of the Prevention of the very similar to remain g Workshorth on the profession of the Prevention of the one girt in pin a place. A profession of the profession of the profession of the pin 17 TMMz (taken) processed speed at a sinishe as To thingag speed, you have to prevent profession of the pin and the prevention of the prevention of the pin and the prevention of the pin and the pin and the prevention of the pin and the pin

The FCH will run all the software could expect that is, correlation between gastages requires a bard does or EOA standard graphes adaptive September 1 and the September 1 and September 1 and September 1 and standard difference to the computer. Or otherwise houseser, it is not so odd, as the landing faster on most computer, or out the machine, they the benchmarks with the machine, they the benchmarks of the source of the second of the second power adverse to the second of the second to the second of the second of the second to the second of the second of the second to the second of the second of the second to the second of the second to the second of the



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conclusion
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Comparing the Commendate

Curgle in marron competitor, the Amazind PCISS2, reveals for glaring deferences in salar. The Amazind is shaper, but the Commodere has a better display, and so so. It might in the end rouse down to who often the better handling deal. At the moment Commodere are bandling a printer-sia MPSISSD — with every PCISSIS. That, in my book, just about vivings



Graphics on the

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YOUR COMMODORS NO 1989

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DIMENSION computers l.t.d. THE MIDLAND'S LARGEST COMPUTER STORE AMIER ASSESSMENT AMIER ASOD plus

Can the Jiffy defeat the dolphin By S. Garton

one far this being that disk access in available to disk users to help spec-

Secondly, some cartridges require

What It Does

Product ACV Das Supplier F.S.S.L.

Mouse

utility to use them together in 80-colomn text mode Bu D H Fabre

Then I recently purchased a

How it works

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Getting it in

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418 EATS 44,48,44,49,50,44,4	55	869 SATA TW. 52,72,45,70,46,7		1200 DETR 79,76.0.231.31.1
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400 DATE 40.44.45.59.9.35.29	13.	918 SATA 184.34.59.8.142.39.	E4	1320 CATE 32.72.72.32.32.72.5
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	14		53	1948 BATA 41,58,78,49,176.
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anything in your Basis By Neil Higgin.



need to change a variable to another

5YS49192, Text STREET, AS

WORTH COMPANYORS IN 1989

Gettier It All In

C64 PROGRAMM

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LOV MG

C64 PROGRAMMING



PERMIT DEVISION TO SCHEDI COSTIT OF PROCESSOR V THE COSTITUTE OF T

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ID COMMODORY NO

BLISTERING PACE

PIXEL PERFECT PASSING SUPERB TACTICAL PLAY



























Games

the games machine race, and it's getting more popular

By Tony Hetherington

Dangeoles and Dregons is the only roto-playing game, and so it was

Command and Stellar County













Also from US Gold - Heroes of the





Sprite Library

as individual unquences; for example

This month. Mike Benn shows how to run rings round

Table (Circle - Hires)

Getting it all in



BO VASSPUB PRINTS

10000 BACK DIE, DI. 31, DIE, SE. 11, DIE, SE. 11, DIE, SE. 12, DIE, SE

1993 2075 DACA 15,099,0,7,848,0,3



DEMON'S WINTER















Mercentaloid? I convised that I was not give I harred ell convised that I was not give I flowers. British has it some given on me, and I can became booked. But all the time, the deaths ranged as we do a tilk may I to the not! I dedied that I was a some, but with a bit more cure it could have been a good game.



GAMES UPDATE

Para

Assault Course

More sign. I can remember weighing me joyatisk like and an I tried to enviro a graviting 1500 meters care in a Despiden game. See proposition game for the same deep has meanfaned again. Oh to be seen, the same Percentage organic association for the same Artistic stations, but at the end of the day, joyately weighting to the same at the same

resident (saine), liker is a now energy force at worth in final into the sail from a dristness of one park, and both but there!

Each counter can be proviously and practiced before amongs the real thing, although killing year for failing the shock shift does seen as 100 hours. Fair mining his yea'ts trying the course proper, but sainly not in premise.

I didn't upon this game or all. Yes, I know it's a rest of cuttan fird prote games currently annihilate, and this



Head for Home

We present an update for this popular program

By Kirk McMillan

ming the technique of plating
M.I. Data onto the real of a
built program. A few zero bytes
separate each section and proceed M.I. from being deplated with Hank's
LIST command.
There are tow very good reasons
for doing these finally, it, sarm conidentable room. Heaf for Henne would

otherwise, and I'v Inner renning, with no maining for FOR NEXT loops to pole data into recently. However, there is not disadvantage Basic programs can't be offsed or alored. This changes the remoter of bytes used, and causes the Mi. contines

alaxed. This changes the remoter of hytes used, and ounses the ML continue to be at a different address to that intended. The only exception is where the shange deem's affect the length of a program—as in shanging DLOAD ta LOAD. Both commands are takenined and use one byte.

machine language wars't spotted by us at the rangacine and mas published as two basic program (PC Moreh, 1989). New comes the task of adding the ML to both programs. After typing in the basic sections.

you must check that no extens space or Rems have expended the pregram to where the ML is to go, Leed the first pregram in said, is direct model enter. PRINTPEEK (45) +256* PRIK (46) The soover must be less than 4450.

of error checking. DATA DETA

may help a lafte here by specificajourn and abstraing sub-travers.

If the sub-travers is the sub-travers of the subfield first sub-travers from the late.

If the sub-travers is the samelee from the late,

ga to begin such is swood be if

you will need to temp track of whi

you've ga to if you type in the d

core sovered sittings.

or of you will need to be the sub
core sovered sittings.

Experiment of the lates,

Reference to the lates,

Reference to the lates,

Reference to you've it is marken.

press ESC revice and then center the manifest to save year work. FOR MLL uses: S "name", 8, 1166 1694 and ML2 - S'name", 8, 2538, 3630 To continue later on, LOAD "name"

FFK ORCA EMERY

10 THAP160

20 PEINT TOUSONER ENTRY FOR 1

3 10 EV

3 10 EV

4 THAP160

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4 THAP160

10 EV

5 THA

-TIMESON

9 (FF) DOWN-TIPLELEE-12072

10 FF) DOWN-TIPLE-12072

10 FF) DOWN-

for "8" and LOAD for DLOAD.

If you have noted of where you is
or for any reason want to cherk at
his here entered, then issingly and
"M" command from within Tedmo
"The line addresses and each row
hytes and correspond I so I with I
listing, I've could not the "I'venum
to fill memory with a Kinnin what
inflicate where data has or hasn't be
material.

you shed, OMI, I should be 3 that not you and MIZ II should, the method any merging them with the Basic program in plotters:

(Y = (1) DLOAD "Blead for Home" in normal reasons.

(2) RENAME "Head for Home" "HPR.od"

(3) ADAD "sell" (5,1)

"DLOAD "mil"Al (6) DSAVE "Head for Heate" (5) DLOAD "L. BASIC" (6) BENAME "I havie" "I hand sid" (7) LOAD "mil"Al (6) DSAVE "I hand"

00 10 SETEMONIO SETEMONIO

Listings

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Extending Basic

Create your own-symbol table, and learn all about tables and search routines

By Burghard-Henry Lehmann

developed a routine which allows that the control of the control o

in value in the Basic variable area which follows directly after the Basic testille.

But with this method we are subject to the Emissions Commoduse Basic imposes on the use of variables, the

imposes on the use of variables, the main one heig that only the first two characters of a variable name an taken into account - the nest are ignored.

What we want to do is overcome this limitation by creating our own speaked table. In the precess we sold to

speaked hable. In the precess we will learn about several concepts in machine code programming which will be very until in whatever programming you must to do.

The Symbol Table

The symbol table we must to be as area in memory where to

matther to which the competer has tajump when the late! It used with a COTO or GUSUB learnation. In methine code pregnamming, you reads many tables. A table is as amy of data where each rarry is of the same legals. Tubbe are useful for shoring data and accorning it quicks and efficiently. For the synthol table we create in our program, I have chosen a nervoy not starting from

Thus, 50000 in the base middens of our symbol table.

To make each entry the same length, Two shows a manisons of six recognizable characters for each tabel. That is, if a table it is longer than on characters, the rest will be ignored, and if it's thanter than six characters, the difference will be filled (or "padded") with control the viprode table, on you with even in the symbol table, on you

Since we also want to store the fe number belonging to each label no to the label, each entry needs : e to store its high byte. This important if the line number than 256.

he of I, we see eight bytes for at label starred in the symbol suffi-Deerfeen, to point at the beginn of the symbol sufficient of the defense of the table is medipple eight. And if you said the bear addof the table possion 0, then the Coffee of the first fear network or examp to the table possion 0, then the Coffee of the first fear network or examp is in important that such entry as able to the same length. If the cofpander has to select health of the panel from early to early simply adding the length of the netry power adders. And if it has to protect adders.

Storing a Label

The results to store and held in the canada taled (see 2003.050) in quite canada taled (see 2003.050) in quite canada taled (see 2003.050) in quite canada (see 2003.050). Basic program for all the labels, the base address of the symbol table, which is 2000i, 13 (see 2005.251). This advant as to use 12005.251). This advant as to use 2005.251. This advant as to the control of the

addressing. If the label is shorter than it characters, the fedowing loop die 3660-3000 fills the rest with space Next the line number belonging to the label is stored. To do this no incremenzero page 251/252, which stores the

described and the contain the contain the contain the contain two and three, which to point at the season to point at the season to point at the described to the contain even and one.

To solve this problem, table the line sumber first and part of it onto the track dieses \$220-325.

g one, pull the less tops of the line member from the stack, and stane is in the convext place in the symbol table (lines 330-5238). Such tricks are receising in execution the lack of registers the 4500 has get (Beneralter, processor X van ords, Arrigater Nothern and Arrivan ords). Thinkly, increment the yearhol table pointer addressed?

End Marker
When all labels have been redireted

When Mildock have been collected and the state of the sta

that to easily found has been able to the or each it fluided. If there was no they you derivate the end of the symbol table, the computer would go in societies go ever — that is, it would got too in an endison loosy! To ignify the end of a table, it is seemiliness useful it us on end enaster as no do not be ended to the end of the end of a table to see as no do not end to see the end of the en

Now we come up against a ne

has beamformed 150 lines 1530-1540 isst if the next byte in the symbol sable contains a zero. If yes, the label has indeed been found. If not, the search has been succonstitul up to this polici. The third exit is taken after all six successful and characters have been caus-

end of the combol table has been

Windows on the C64 Using windows on your C64 couldn't be enries

Re F.E. Randal



To drag the window from your Basic program, you would probably

Dragging Windows

Error Messages

Demonstration Program

A NAMED



YOUR COMMODORS IN

C64 PROGRAM

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Spritz Sprite System

If you are fed up not having sprites on your Plus/4,

Re Mark Everlagham

THE Fairy or Hobushin." Hermen. Maybe, but perhaps the

Type Mismatch Error - you have

bers 1.8 the HILP command will

or OFF. This feature of the HELP

a RAMPONT command to tel

PAMPONT SIMM FONTCOPY O

HARDRYS: PRINT "ABCD

The HIPPES and MILLTI communds

SPRITZ Sprite

CHI Top right that code (0 - 257) CH2 - Bettom left char code (9-25%)



SPRITE 8. L. L. S. 4. S. 7. S. 6. S.

PORECROSNO CHASA MODE SP

ENABLE SPODSABLE SP

POREGROUND DR - All proposit

UNDER or SELECT as explained

FOR NIG TO TIMODE N. UNDER-

ENABLE DENABLE 2 DISABLE 6

0-23. When you use a MOVE cominsact. The MOTE command can also



ENABLE I SHIFT SP SLEFT/SRIGHT/SUP/

SDOWN and SHIFT SP.DIR

SPRITZ UTILITY

window specified, the SCREEN com-

adaption entering RENET and prost of

FONT CHMFONT (Upper case)

H RESETS CNCLR-ENABLE O

SPRITZ User Function

SPRITE campands. As with all

DEFINE SCRN CO'D, 176, 85, 176

XPOS (SP) and YPOS (SP) The XPOS and YPOS functions are

16 PRINT Position of Sprite & COLLEGE is an important part of the SPRITZ Keyword Abbreviation

20 MOVE 0 TO 28, 0 ENABLE 0:D-0 30 SHIFT 4, D.IF COLLIDS (6)

When first ran, these will be if 0

Foreground value I

SPRITZ Sprite - Editor Program



The Control Keps

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iprise cance is currently located. When you press 'C' the programs will clear to

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ter of the features the Spriter is program effect which is unique PATTZ in the colour function. It is the colour function. It is a different colour for each of in Colour (1-14) and Lamin censor will them draw in the a colour solicital.

If you want to start with a clcurious so to speak, then pressing CLR/HOMF key will clear the it window learing you with an emblish apide. Care should be in wing the function so you can not it wring then function so you can not it sooms some handbard?

All of SPATTES eight spress can be edited. You can change the sprint to be odited by pressing the Tr key. The citalogue window will shen citat and you can centre the sprint in the range 0.3. The team another is diephysyel in the Stattas window and the new sprite is drawn in the Edit and Dojalay sindows. The Spatte can then be edited just like any other. When you saw happy with your

You can relead ust of age previously aren't from the Spe fidden by helding the 'U. key.' peggram will process for evereffecture in exactly the same may for saving appears. The speries will do be reloaded for further collains. Frankly, when you have finel using the Speries-Edden program, coming on our of a key guessing 'E.

Changing the Sprite-Editor Font Address

programs. It is set up for a character or at \$1800. The highest possible place on a Plau, I or of K. Clif. If you want to change this address, for example, if you only have a 20K Clif. He will you have it for its part of the RAMIONT command in line 90 and the ADDRESS declaration is less I to of the program. Care should be taken not to use the address. Down that the cod of the program. Care should be taken out to use the address. Down that the cod of the Spritts—Edizer programs if

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ENAMER in a the arrites and then using SPRITE command as \$50,777 owing effect of a series of DEFINE and SPRITE commands

Getting SPRITZ Up and

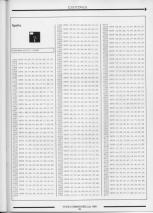
The Basic Loader Program is used to

DLOAD'SPRITZ' (For Disk Users)



Sprite-Editor Program

DSAYE "SPRITE EDITOR"



LISTINGS

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Amiga Workbench

market same from years ago it Amiga has gone from strange stonight. Today it is one of the moworth and sensate been compore available. And yet, recently it hathasly game down in price. So, the and of Amiga owners is growing a time.

This is especially true for computers. Nabody has any queries about what to do with a third-base set or a side seconder or a hird-theory you've bought it, you just get in out of its hose, plug it in, pross the ON-button, and Bob's-Your Linetic.

tis, press the ON-button, and Bobbrous-Unde.
Computers are very different from hat. When you start a computer it loss very little at first. All you've get a clover been of interestic bits and

frees.
This is true even for a machine sowerful as the Amiga. Its real mig shidden underneath the surface, on

in habben underreasts the nurface, only undeaded by good software and by your own estitutions to get to know the machine and make use of its inon capabilities.

Songe, the true may you by grant, or you feel them had been a whole term meet them what you get freeze who either companies at many expectably that the Commander of the Gondan Apertures and the Across BAC machines I close I have if some of you at 21 remember the ancient claps of computers when all you were greated with at marriage was a fashion conver-

> But, Workbreck too is merely an ovvironment in which to make things happen on the Amiga. It's not the man event louif.

suppers on the Armga. It's not the main rvest isself.

Workbeach is busically an appli-

eithers programs and do some dat operations, like disk cope, disk for marting and so on. All the facilitie of Warkbeach are made possible is an important part of the Amig

pull down a more, click the g on the left hand side of a window makes the window vanish, it's



happen.
Annahios is a pragrammer's
because it puts all the sopher
facilities of the Aniqua right
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When you first try to find out room about the Amiga, and expectably her

happened.

When you first try to find out more about the Anaja, and operally how popurars. In the task scene, opin danning. This ion't helped by the Borranew which is supposed to help you, like the massive Anaja massababability Addition Helsely, You monder what kind of computer posits I taken by multivalent the workings of the Anajas, a shown, so be shift to

But note you've evercome this initial barrier and get some insight iets the Anisa, you'll discover to your sergicie that the Anisa, you'll discover to your sergicie that the Anisa is in fact one of the national thanking in in fact one of the program in black not Nove mind, if you purp me in black not Nove mind, if you purp me in the last Nove mind, if you program in black not Nove mind, if you program in black not Nove mind, if you program in the last Nove mind, if you program in the national sergicial than the national sergicial than the national sergicial than the national sergicial than the national sergicial sergic

of the pregrammer than any other, machine Herber you know it, year pregram will have nindown and puldewn news, pageton and requesters and will run confortably in the markitashing environment of the Amiga tegether with other programs. To hip you as your my to decovering the methings of the Amiga and how to might all the Amiga and how to might be proved by come, new perposes and devices, from one perposes and devices, from

Commonster in starting thin new monthly column.

My main sim in this column is to closure all appents of Amiga comparing with special emphasis on proparaments ple Amiga.

For this I'll like to hear force your Mysta are your main internet in Amiga computing! What persauled you to buy an Amiga in the Erra place! What

year queries, your sugg But let's start the l having a closer look at ' which most of you will If you compare Workbeach I with its predicester Workbeach I their stems very little difference. I main advantage with Workbeach I is that it runs a bit quicker become new facilities like fast text and fi filing.

You are also able to remane t

Eam disk, screening yes couldn'd on Workbeach 1.2 Sociation there is bug.

The runin advantage with Western 1.3 does not be noth Workbeach 1.2. The saw window makes the red different Workbeach 1.2.

As for an commands are cover

for two new constantio. In main advantage lies in the sandy improved editing facilities, which has is be able improvement, because the self-content to the CLI debth have any ording facilities and CLI debth have any many content of the CLI debth have any many content of the content power. I shall not for CLI able that power is above, That is, power on some part is haven, That is, power on support in the content up and down keys to receive up and down keys to receive the content up and them to provide to ordin average constant of power gives invaried of

You can also use current fift and right to covere anothing you've typical to sweeping our sight to sweeping our side seemshing poor've frequents.

Then the Shell has per one encountant shells our extremely useful offer and Postalers.

Other and Postalers.

For example, I have considered to the contract of the same construction of the contract of th

the directory of the disk is done to option; which "All" places me the is fee drive I.

With the dilas command you use square bracket into signif ffermers or variable which can to be given together with the Alias, example:

alias d0 dir df0 [giro sou, if used b The other new command the Shel has in Braidest.
This makes a command behave notice as if you had control a CL

This makes a command behave works as if you had copied a CU command into the RAM disk so that it counted quicker and without the

whethered this in the drive.

Peaker also works for program
will but there is the restriction that resides
on only works for CLL commands as
programs that are re-restrant and reget resecutable, meaning programs that
the same time in the Arriga mahkankin,
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environment. This is not an existint/verar it scenar since most programs our be made visiblest quite happily within the "prinders pure" option, even if a first it refuses to make that programs resident. All your have to do in expetiment a bit, with the programs to risable our than the machine word play ap. Fraulty, the Shell has a visiting wrige, called "Shell has a visiting aring, called "Shell has a visiting.

It the Shell startup script you coreter all your favorable absence to the startup relations for the process.

This secum to see to be the sur-

Workbooch 1.3 has a much le startup-sequence than Workbooch and oven uses a sub-ocipt, or Startopell. All this enables you to up your own Amiga work certisese as it suits you.

To finish off, let me know al any good scripts you've written le

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